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IN THE CLAIMS:

1. (canceled)
2. (currently amended) ~~A method according to claim 1,~~ A method of hemodynamically optimizing pacing intervals in a cardiac stimulation therapy device that provides pacing therapy to at least three chambers of a heart, comprising: a) measuring developing fluid pressure with a pressure sensor adapted to be coupled to a cardiac chamber and providing a pressure signal therefrom for at least one cardiac cycle; b) storing at least a one of 1) the pressure signal or 2) a temporal derivative of the pressure signal, and a then-present pacing interval set used when the pressure signal was measured; c) changing at least two pacing intervals of said pacing interval set, and d) returning to step a) until each of the at least two pacing intervals have been changed; e) comparing the stored pressure signal or the temporal derivative of the pressure signal corresponding to said at least two pacing intervals to the stored pressure signal or the temporal derivative of the pressure signal corresponding to; and f) utilizing a present pacing interval set that includes the at least two pacing intervals that provided the most favorable pressure signal or temporal derivative of the pressure signal when compared in step e), wherein the pressure sensor comprises an absolute pressure sensor coupled to an ambient pressure reference unit.
3. (currently amended) A method according to claim 42, wherein the chamber is a right atrial chamber or a right ventricular chamber.
4. (currently amended) A method according to claim 42, wherein said pressure sensor is coupled to a pacing lead.

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5. (currently amended) A method according to claim 42, wherein said pressure sensor is coupled to a defibrillation lead.
6. (currently amended) A method according to claim 42, wherein said pacing intervals comprise at least a one of: an A-A interval, an A-V interval, a V-A interval, a V-V interval, a sensed-AV interval, a paced-AV interval.
7. (currently amended) A method according to claim 24, wherein said pacing intervals include a paced heart rate value.
8. (canceled)
9. (currently amended) An apparatus according to claim 8, An apparatus for hemodynamically optimizing pacing intervals in a multi-chamber cardiac stimulation therapy device that provides pacing therapy to at least three chambers of a heart, comprising: means for measuring developing fluid pressure with a pressure sensor adapted to be coupled to a cardiac chamber and providing a pressure signal therefrom for at least one cardiac cycle; means for storing at least a one of 1) the pressure signal or 2) a temporal derivative of the pressure signal, and a then-present pacing interval set used when the pressure signal was measured; means for changing at least two pacing intervals of said pacing interval set, and means for returning to the initial step until each of the at least two pacing intervals has been changed; means for comparing the stored pressure signal or the temporal derivative of the pressure signal corresponding to said at least two pacing intervals; and means for utilizing a present pacing interval set that includes the at least two pacing intervals that provided the most favorable pressure signal or temporal derivative of the pressure signal when compared by the means for comparing wherein the pressure sensor comprises an absolute pressure sensor.

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10. (currently amended) An apparatus according to claim 89, wherein the chamber is a right atrial chamber or a right ventricular chamber.
11. (currently amended) An apparatus according to claim 89, wherein said pressure sensor is coupled to a pacing lead.
12. (currently amended) An apparatus according to claim 89, wherein said pressure sensor is coupled to a defibrillation lead.
13. (currently amended) An apparatus according to claim 89, wherein said pacing intervals comprise at least a one of: an A-A interval, an A-V interval, a V-A interval, a V-V interval, a sensed-AV interval, a paced-AV interval.
14. (currently amended) An apparatus according to claim 89, wherein said pacing intervals include a paced heart rate value.
15. (currently amended) An apparatus according to claim 89, wherein the pressure signal represents at least a one of: an ePAD metric, a pulse pressure metric, a right ventricular systolic pressure metric, a right atrial systolic pressure metric, a right ventricular diastolic pressure metric, a right atrial diastolic pressure metric.
16. (currently amended) A method according to claim 21, wherein the pressure signal represents at least a one of: an ePAD metric, a pulse pressure metric, a right ventricular systolic pressure metric, a right atrial systolic pressure metric, a right ventricular diastolic pressure metric, a right atrial diastolic pressure metric.
17. (canceled)

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18. (currently amended) A medium according to claim ~~47~~19, wherein the pressure signal represents at least a one of: an ePAD metric, a pulse pressure metric, a right ventricular systolic pressure metric, a right atrial systolic pressure metric, a right ventricular diastolic pressure metric, a right atrial diastolic pressure metric.

19. (currently amended) ~~A medium apparatus according to claim 17, A~~
computer readable medium for storing instructions for performing a method of hemodynamically optimizing pacing intervals in a multi-chamber cardiac stimulation therapy device that provides pacing therapy to at least three chambers of a heart, comprising: instructions for measuring developing fluid pressure with a pressure sensor coupled to a cardiac chamber and providing a pressure signal therefrom for at least one cardiac cycle; instructions for storing at least a one of 1) the pressure signal or 2) a temporal derivative of the pressure signal, and a then-present pacing interval set used when the pressure signal was measured; instructions for changing at least two pacing intervals of said pacing interval set; instructions for returning to the initial step until each of the at least two pacing intervals has been changed; instructions for comparing the stored pressure signal or the temporal derivative of the pressure signal corresponding to said at least two pacing intervals; and instructions for utilizing a present pacing interval set that includes the at least two pacing intervals that provided the most favorable pressure signal or temporal derivative of the pressure signal when compared in the comparing step, wherein the pressure sensor comprises an absolute pressure sensor.

20. (currently amended) A medium according to claim ~~47~~19, wherein the chamber is a right atrial chamber or a right ventricular chamber.